IMPORTANT!

Cooling Requirements for DNV7F1A VCCINT Power Supply (PSU18)

If the FPGA draws greater than ~50amps from its VCCINT power supply (PSU18) the power supply will overheat and start rising in voltage which, depending on how hot it gets, can go beyond the absolute maximum VCCINT voltage specified in the Virtex-7 datasheet. This has the potential to damage the Virtex-7 device. If a user design is created that draws greater than ~50amps from VCCINT, then external airflow is required for cooling PSU18, such as that provided by chassis fans or a desk fan.